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1	US 20050123075 A1	20050609	13	Efficient conjugate gradient based channel estimator	375/340	375/233
2	US 20050123074 A1	20050609	13	Efficient conjugate gradient based channel estimator	375/340	375/233
3	US 20030035492 A1	20030220	18	Symbol constellations having second-order statistics with cyclostationary phase	375/295	375/229; 375/296
4	US 20020110347 A1	20020815	15	Variable optical attenuator	385/140	385/19
5	US 20010016003 A1	20010823	7	Error control apparatus and method for channel equalizer	375/232	375/350
6	US 6985035 B1	20060110	137	System and method for linearizing a CMOS differential pair	330/253	330/149; 330/252; 330/307
7	US 6978937 B2	20051227	108	METHOD OF READING INFORMATION AND APPARATUS THEREFOR, METHOD OF ACQUIRING SIGNAL FOR USE WITH INFORMATION READING APPARATUS, METHOD OF PROCESSING BAND LIMITATION, METHOD OF EXTRACTING TIMING POINT AMPLITUDE AND METHOD OF PROCESSING SIGNAL THEREOF, READ SIGNAL PROCESSING UNIT, AND METHOD OF PROCESSING READ SIGNAL AND PROCESSING APPARATUS THEREOF	235/462.01; 235/462.19; 235/462.216	235/462.01; 235/462.19; 235/462.216
8	US 6963110 B2	20051108	100	System and method for ESD protection	257/355	257/356; 257/357; 257/360; 257/546
9	US 6952445 B2	20051004	17	Symbol constellations having second-order statistics with cyclostationary phase	375/232	375/259; 375/295
10	US 6885275 B1	20050426	109	Multi-track integrated spiral inductor	336/200	257/531; 257/E27. 046
11	US 6876810 B2	20050405	15	Variable optical attenuator	385/140	

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1	Kim, Jin H. et al.
2	Kim, Jin H. et al.
3	Murphy, Charles Douglas
4	Morimoto, Masahito et al.
5	Kim, Gang-Ho
6	Khorramabadi; Haideh
7	Iwaguchi; Isao et al.
8	Woo; Agnes N. et al.
9	Murphy; Charles D.
10	Chang; James Y. C.
11	Morimoto; Masahito et al.

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12	US 6856648 B1	20050215	15	Method and apparatus for equalizer updating and sampling rate control	375/232	375/316; 375/355
13	US 6803829 B2	20041012	149	Integrated VCO having an improved tuning range over process and temperature variations	331/34	257/E27. 046; 331/117F E; 331/175; 331/186; 331/66
14	US 6759904 B2	20040706	122	Large gain range, high linearity, low noise MOS VGA	330/254	257/E27. 046; 327/359
15	US 6525609 B1	20030225	123	Large gain range, high linearity, low noise MOS VGA	330/254	257/E27. 046; 327/359
16	US 6512555 B1	20030128	33	Radio receiver for vestigal-sideband amplitude-modulation digital television signals	348/726	348/500; 348/725; 348/729; 348/731; 348/737; 375/319
17	US 6496229 B1	20021217	24	TV receiver using read-only memory shared during VSB and QAM reception for synchrodyning I-F signal to baseband	348/725	348/427.1 ; 348/433.1 ; 348/726; 348/731
18	US 6477207 B1	20021105	17	Method and apparatus for implementing a transmission connection	375/260	375/279
19	US 6463295 B1	20021008	37	Power control with signal quality estimation for smart antenna communication systems	455/522	455/562.1 ; 455/69
20	US 6445039 B1	20020903	100	System and method for ESD Protection	257/355	257/356; 257/357; 257/360; 257/E27. 046
21	US 6426972 B1	20020730	26	Reduced complexity equalizer for multi mode signaling	375/229	375/233

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12	Hyll; Mattias
13	Duncan; Ralph et al.
14	Behzad; Arya R.
15	Behzad; Arya R.
16	Patel; Chandrakant B. et al.
17	Limberg; Allen LeRoy
18	Lindholm; Jari
19	Yun; Louis C.
20	Woo; Agnes N. et al.
21	Endres; Thomas J. et al.

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22	US 6426680 B1	20020730	152	System and method for narrow band PLL tuning	331/34	257/E27. 046; 331/117F E: 331/117R ; 331/16; 331/17; 331/179; 331/36C
23	US 6421378 B1	20020716	23	Signal waveform equalizer apparatus	375/229	375/344
24	US 6414948 B1	20020702	19	Electric power controlling system for variable bit rate CDMA transmission and mobile telephone system	370/335	370/342
25	US 6320904 B1	20011120	8	Clustering blind convergence process in an adaptive decision feedback equalizer	375/233	375/261
26	US 6188722 B1	20010213	11	Sequential blind convergence process in an adaptive decision feedback equalizer	375/233	333/28R
27	US 6005640 A	19991221	18	Multiple modulation format television signal receiver system	348/726	348/555; 348/558; 348/614; 348/720; 375/235; 375/240.0 1; 375/348
28	US 5841816 A	19981124	18	Diversity Pi/4-DQPSK demodulation	375/331	375/332; 375/347; 375/366; 455/134; 455/137; 455/277.2
29	US 5825832 A	19981020	14	Method and device for the reception of signals affected by inter-symbol interface	375/341	714/795
30	US 5799037 A	19980825	18	Receiver capable of demodulating multiple digital modulation formats	375/233	375/326

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22	Duncan; Ralph et al.
23	Fukuoka; Toshihiko et al.
24	Sato; Toshifumi
25	Velez; Edgar et al.
26	Velez; Edgar et al.
27	Strolle; Christopher H. et al.
28	Dent; Paul W. et al.
29	Benedetto; Valter
30	Strolle; Christopher H. et al.

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31	US 5774450 A	19980630	26	Method of transmitting orthogonal frequency division multiplexing signal and receiver thereof	370/206	370/208; 370/210; 370/515; 375/368
32	US 5537439 A	19960716	10	Decision directed algorithm control method	375/232	375/229; 708/323
33	US 5056117 A	19911008	14	Decision feedback equalization with trellis coding	375/234	2/917; 375/341; 375/349; 714/795
34	US 4847797 A	19890711	13	Adaptive blind equalization method and device	708/3	333/18; 375/235; 708/323
35	US 4646173 A	19870224	55	Converting and decoding receiver for digital data recorded in analog form on magnetic tape	360/51	360/32; 375/350; 375/371
36	US 4344177 A	19820810	8	Equalizer comprised of equalizer sections which include internal accumulation circuits	375/236	708/323
37	US 4320517 A	19820316	9	Method and device for effecting the initial adjustment of the clock in a synchronous data receiver	375/231	333/18; 375/232; 375/355
38	US 4237554 A	19801202	12	Coefficient tap leakage for fractionally-spaced equalizers	375/234	333/18; 708/323
39	US 4097807 A	19780627	16	Automatic equalizing method and system	375/232	375/270; 375/344
40	US 4089061 A	19780509	16	Method and apparatus for determining the initial values of the coefficients of a complex transversal equalizer	708/305	333/18; 375/231; 375/261; 375/270
41	US 4004226 A	19770118	11	QAM receiver having automatic adaptive equalizer	375/231	333/18; 375/261
42	US 3787762 A	19740122	11	SELF-ADAPTIVE EQUALIZER FOR QUADRATURE AMPLITUDE MODULATED SIGNALS	375/235	
43	US 3783386 A	19740101	11	EQUALIZER OF PRESET TYPE FOR QUADRATURE AMPLITUDE MODULATED SIGNALS	375/232	333/18; 375/231; 375/235

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31	Harada; Yasuo et al.
32	Choi; Yang-seok
33	Gitlin; Richard D. et al.
34	Picchi; Giorgio et al.
35	Kammeyer; Karl-Dirk et al.
36	Kustka; George J.
37	Godard; Dominique N. et al.
38	Gitlin; Richard D. et al.
39	Fujimura; Noriaki
40	Milewski; Andrzej T.
41	Qureshi; Shahid U. H. et al.
42	Sato; Yoichi
43	Sato; Yoichi

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44	US 20010016003 A	20010823	7	Combine G-pseudo channel equalizer for controlling error in digital transmission system, adds absolute value of real and imaginary portion of error calculated based on corrected signal to obtain absolute value of error		

	Inventor
44	KIM, G H et al.